

**SCREENING:** All adult inpatient cases (≥18 years) admitted to a hospital who have been treated with respiratory support (NIV/CPAP/HFNO) in any setting other than critical care AND/OR admitted to Respiratory Support Units.

1	Demographics
1.1	Gender:
	Prefer not to say
1.2	Age:
1.3	Ethnicity:
	White (English, Welsh, Scottish, Northern Irish, or British)
	White Irish
	White Gypsy or traveller
	□ Any other White background
	Mixed ethnicity     Asian or Asian British
	Asian of Asian British     Black African Caribbean or Black British
	□ Any other ethnic group
1.4	Date of arrival to Hospital (ED. ward. clinic):
	DD/MM/YYYY
1.5	Time of arrival to Hospital (ED, ward, clinic):
	: (24HR)
1.6	This audit includes all patients requiring a higher level of monitoring and respiratory intervention than would be
	expected for a routine ward environment. Which option most accurately describes the ward area where the
	patient received MOST of their respiratory support / complex respiratory management during this admission:
	Designated Respiratory Support Unit (RSU)
	Respiratory ward area that routinely provides NIV and has SOME enhanced staffing, though not fully meeting DTS (ICC DSL) criteria
	BIS/ICS RSU criteria Respiratory ward area, no enhanced staffing for NIV (1 purse) or more patients)
	$\square$ High Dependency Unit
	□ Acute Medical Unit
	General Medical or other ward area
1.7	Date of arrival to the ward area specified in 1.6 :
	DD/MM/YYYY
1.8	Time of arrival:
	: (24HR)
1.9	Was there any delay in starting acute NIV?
	□ Yes
1.10	Length of RSU stay/duration of enhanced respiratory care:
	Days (allow freetext numbers)

1.11	Discharge location from RSU:
	Step-down to ward
	□ Escalation to ICU/HDU
	□ Transfer to another hospital
	□ Discharge to home/community setting
	□ Other
1 1 2	Was there a significant delay in transferring the nationt out of RSU?
1.12	
1.13	Date of discharge from hospital (or date of death if deceased):
	DD/MM/YYYY
1.14	Status at discharge from hospital:
1.15	Escalation status during FIRST 24 hours of starting respiratory support OR following RSU admission:
	$\square$ For escalation to critical care
	Not For escalation to critical care
1.16	Please record the patient's Rockwell frailty score prior to admission:
	1 – Very fit
	🗆 2 - Well
	I 3 – Managing well
	□ 4 - Vulnerable
	□ 5 – Mildly frail
	$\square$ 6 – Moderately frail
	$\Box$ 7 – Severely frail
	$\square 8 - Very severely frail$
	$\square$ 9 – Terminally ill
1.17	Infection status on starting respiratory support or admission to respiratory support unit (whichever was
	soonest):
	Suspected or known COVID-19 positive
	COVID-19 negative
	Suspected or known Flu/RSV positive
	□ Flu/RSV negative
2	Diagnostic categories and use of respiratory support
-	Turnes of requirements and divine DCU educinies (tick all that early places):
2.1	Types of respiratory support used during KSO admission (tick an that apply please).
	Oxygen via nasal cannula or other standard non-Venturi mask (up to 15L/min)
	□ NA / not admitted to an RSU
2.2	Primary diagnostic category
	□ Hypercapnic respiratory failure AND treated with NIV (If yes, please go to Section 3)
	If yes to the above, was the primary diagnostic category:
	Acute acidaemic hypercaphic respiratory failure, treated with acute NIV

	Compensated (non-acidaemic) hypercapnic respiratory failure treated with NIV (acute NIV or home
	initiation) or on home NIV already, treated with acute NIV (please specify)
	$\Box$ Acute asthma
	□ Acute pneumonia
	Acute pulmonary embolism
	<ul> <li>Complex pleural management (fluid or pneumothorax)</li> </ul>
	□ Acute exacerbation of Interstitial lung disease
	Neuromuscular / secretion clearance (NOT TREATED WITH ACUTE NIV)     Acute exacerbation of COPD (NOT TREATED WITH ACUTE NIV)
	$\Box$ Other respiratory indication for RSU admission (please specify)
	Non-respiratory reason for RSU admission (e.g. hospital overflow issues) (please specify)
3	Complete only for NIV pathway patients
3.1	Primary indication for NIV:
-	$\Box$ COPD (suspected or known) (If ves please got to Section 4)
	□ Obesity Hypoventilation
	Chest wall/neuromuscular
	<ul> <li>Acute Cardiac decompensation (e.g. pulmonary oedema/heart failure)</li> </ul>
	<ul> <li>Acute Pneumonia (in absence of COPD or other known respiratory comorbidity)</li> </ul>
	□ No data/not recorded
3.2	Where did NIV start:
	ED / MAU (designated NIV area)
	$\Box$ Other designated ward NIV area
	Area not formally designated to deliver NIV
	Unknown
	Other
3.3	Date of NIV start:
	DD/MM/YYYY
3.4	Time of NIV start:
	:(24HR)
3.5	Type of pre-NIV blood gas measurement:
	Arterial
	Venous     Capillany
3.6	Pre-NIV Ph:
5.0	
3.7	Pre-NIV PaO2:
3.8	Pre-NIV PaCO2:
3.9	Date of pre-NIV blood gas:
	DD/MM/YYYY
3.10	Time of pre-NIV blood gas:
	:(24HR)

3.11	Highest IPAP pressure reached at 2-4 hours:
0.40	
3.12	Highest EPAP pressure reached at 2-4 hours:
3.13	Ventilator Back-up rate at 2-4 hours
3.14	Was a blood gas obtained after starting NIV:
	□ Yes
	□ No (if no, go to question 3.20)
2.15	If VES, data of first blood gas ofter starting NIV(
5.15	
2.16	Time of first blood gas ofter starting NIV/
5.10	
3.17	Type of blood gas measurement:
	□ Arterial
	□ Venous
	Capillary
3.18	Post-NIV Ph:
3.19	Post-NIV PaO2:
3.20	Post-NIV PaCO2:
3.21	Was correction of acidaemia (to pH 7.35 or higher) achieved with NIV?
	□ Yes
3 22	If yes, how long did this take (hours):
0.22	i yes, now long the this take (notis).
3.23	Outcome of NIV:
	Success (clinical improvement and pH >7.35)
	Success (clinical improvement, no blood gas confirmation)
	Fallure     Unknown/no data
3.24	Duration of NIV treatment
	(days)
3.25	If NIV failed, was the patient referred to Critical Care:
	Yes and transferred to Critical Care

	Yes, assessed by Critical Care and not escalated
	No, documented not for escalation to Critical Care
	Unknown/not documented
3.26	If NIV failed, was the patient intubated:
	□ Yes
3.27	Outcome of admission:
	□ Discharged from hospital off NIV (local clinic follow up to include blood gas < 4 weeks post-discharge)
	<ul> <li>Discharged from hospital off NIV (referred to home ventilation service)</li> </ul>
	<ul> <li>Discharged from hospital off NIV (clinic follow up organised)</li> </ul>
	<ul> <li>Discharged from hospital off NIV (no respiratory follow up)</li> </ul>
	<ul> <li>Discharged from hospital on NIV (pre-existing home NIV user)</li> </ul>
	Discharged from hospital on NIV (new home NIV started this admission, or transferred as inpatient to
	home ventilation service)
	Death
3.28	Was a blood gas obtained before hospital discharge after stopping NIV:
	□ NO (IT NO, go to section 4)
3.29	Type of blood gas measurement:
	Arterial
	Capillant
2 20	
5.50	
2 21	
5.51	
3.32	Post-NIV PaCO2:
4	NIVO SCORE (for all NIV patients)
4.1	CXR consolidation at the time of decision to start NIV:
	□ Yes
4.2	Glasgow Coma Scale ≤14 pre-NIV:
	□ Yes
4.3	Persistent, new or paroxysmal Atrial Fibrillation prior to the decision to start NIV:
	□ Yes
4.4	pH .25 on pre-NIV blood gas:</th
4.5	Time to from hospital arrival to recognition of Acidaemia >12 hours:

4.6	eMRCD: Which of the following statements best describes the patient's level of breathlessness when feeling at their best during the last 3 months:
	<ul> <li>Too breathless to leave the house unassisted* and requires assistance in washing AND dressing</li> <li>Too breathless to leave the house unassisted* but independent in washing and/or dressing</li> <li>Any level of breathlessness that is less severe than the above options</li> </ul>
	* Simple walking aids do not count as assistance, but mobility scooters, wheelchairs etc do.
5	COVID-19 Pathway
51	Date of COVID-19 symptom onset: DD/MM/YYYY
5.1	
5.2	Confirmed COVID-19 positive?
	□ Yes
5.3	If YES, date of positive test: DD/MM/YYYY
5.4	Which of the following pre-existing co-morbidities did the patient have?
	□ Respiratory
	I lype 2 diabetes mellitus
5.5	Oxygen requirement just before starting respiratory support:
	%
5.6	Oxygen saturation just before starting respiratory support :
	%
57	Permiratory rate just before starting requiratory support
5.7	Respiratory rate just before starting respiratory support.
5.8	What non-invasive respiratory support did the patient receive? (tick all that apply)
	□Treated with CPAP
	□Treated with HFNO
	Not applicable
5.9	If yes to any of the above, what was the primary mode of non-invasive respiratory support:
5.40	
5.10	Lotal duration of non-invasive respiratory support (CPAP/HFNO/NIV) :
F 11	Udys Complications during treatment with CDAD/UENO (AUV) (tick of thet see th)
5.11	Complications during treatment with CPAP/HFNO/NIV: (tick all that apply)
	Pulmonary embolism
	No complications

	Other (please specify)
5.12	Outcome of CPAP/HFNO/NIV:
	Success, weaned to oxygen alone/weaned from oxygen completely
	Failure, but proceeded to intubation
	Failure, did not proceed to intubation
5.13	Reason for RSU discharge (if admitted to RSU):
	Step-down to ward for continued active medical treatment
	Transfer to Critical Care
	<ul> <li>Transfer to external acute trust (RSU/Critical Care transfer)</li> </ul>
	Transfer to Palliative Care / ward setting with palliative intent
	Planned discharge to home/community setting
	Self discharge
	Deceased
	🗆 Unknown
	Other (please specify)
5.14	If transferred to Critical care, was the patient intubated during their critical care admission?
	□ Yes
	🗆 Unknown